

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

<del></del>	r r		· · · · · · · · · · · · · · · · · · ·		
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/665,078	09/16/2003	Hiroyuki Hamano	1232-5149	6073	
27123 MORGAN & F	27123 7590 08/06/2007 MORGAN & FINNEGAN, L.L.P.			EXAMINER	
3 WORLD FIN	IANCIAL CENTER	•	SCHWARTZ, JORDAN MARC		
NEW YORK, NY 10281-2101			ART UNIT	PAPER NUMBER	
	•		2873	****	
			MAIL DATE	DELIVERY MODE	
			08/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commence	10/665,078	HAMANO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jordan M. Schwartz	2873				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period to really within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
·	7					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4) Claim(s) 1-11 is/are pending in the application	4) Claim(s) 1-11 is/are pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)☐ Claim(s) is/are allowed.						
6) Claim(s) 1-11 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers		· .				
9) The specification is objected to by the Examine	er.	•				
10)⊠ The drawing(s) filed on 16 September 2003 is/are: a)⊠ accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	• .					
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
application from the International Bureau	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
	÷					
Attachment(s)		•				
1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Pa					
Paper No(s)/Mail Date <u>8/04</u> . 6) Other:						

**Art Unit: 2873** 

#### **DETAILED ACTION**

### **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Information Disclosure Statement

For applicant's information, on applicant's IDS received August 17, 2004, the cited reference 11-305214 was corrected on the IDS form to 11-305124 to be consistent with the submitted reference.

## Claim Rejections - 35 USC § 112

Claims 9-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 9, the claimed "Ra and Rb are the radii of curvature of the both surfaces respectively" renders the claim vague and indefinite.

Specifically, it is not clear if applicant is claiming that Ra is the radius of curvature of the object side surface and Rb is the radius of curvature of the image side surface (the assumed meaning for purposes of examination) or if applicant is claiming that Ra is the radius of curvature of either the object side or image side surface and Rb is the radius of curvature of the opposite surface. The lack of clarity renders the claim vague and indefinite.

With respect to claims 10-11 the claimed "solid image-pickup element" renders the claims vague and indefinite. Specifically, it is not clear if applicant meant to claim "solid" or if applicant meant to claim "solid-state" (with the latter

Art Unit: 2873

being the assumed meaning for purposes of examination). The lack of clarity renders the claims vague and indefinite.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Hamano publication number 2002/0063969.

Hamano reads on these claims by disclosing the limitations therein including the following: a zoom lens system (abstract); comprising in order form an object side to an image side, a first lens unit of positive power consisting of one lens element (abstract, Figures 2, 6, 10, 14, and corresponding examples 1-4, "L1"); a second lens unit of negative optical power (abstract, Figures 2, 6, 10, 14, and corresponding examples 1-4, "L2"); a third lens unit of positive optical power (abstract Figures 2, 6, 10, 14, and corresponding examples 1-4, "L3"); a fourth lens unit of positive optical power (abstract Figures 2, 6, 10, 14, and corresponding examples 1-4, "L4"); and the first and third lens units move to be located closer to the object side at the telephoto end than the wide-angle end (Figure 1). The zoom lens system of examples 1-4 of Hamano would inherently satisfy the two mathematical conditions of claim 1, this being reasonably based

Art Unit: 2873

upon the similarity in zooming as shown in Figure 1 of Hamano and that of the claimed invention and being based upon the very large ranges claimed (1.0 to 7.0 and 2.0 to 8.0).

Hamano further discloses the second lens unit consisting of two negative lens elements and one positive lens element (the embodiments of Figures 10 and 14); the satisfaction of the condition of claim 3 (paragraph 0075, examples 1-4, Table 1 of page 9); the satisfaction of the condition of claim 4 (examples 1-4, Table 1 of page 9); the fourth lens unit moved to perform focusing (paragraphs 0051 and 0087); the third lens unit includes one or more aspherical surfaces (examples 1-4); the fourth lens unit includes one or more aspherical surfaces (examples 1-4); the satisfaction of the condition of claim 8 (examples 1-4); the satisfaction of claim 9 (examples 1-4); the zoom lens system in a camera that uses a solid-state image pickup element (paragraphs 0106-0107).

Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Ozaki publication number 2002/0118467.

Ozaki reads on these claims by disclosing the limitations therein including the following: a zoom lens system (abstract); comprising in order form an object side to an image side, a first lens unit of positive power consisting of one lens element (abstract, Figures 1, 5, 9, 13, and corresponding embodiments 1-4, surfaces 1-2); a second lens unit of negative optical power (abstract, Figures 1, 5, 9, 13, and corresponding embodiments 1-4, surfaces 3-8); a third lens unit of positive optical power (abstract, Figures 1, 5, 9, 13, and corresponding embodiments 1-4, surfaces 9-16); a fourth lens unit of positive optical power

Art Unit: 2873

(abstract, Figures 1, 5, 9, 13, and corresponding embodiments 1-4, surfaces 17-18); and the first and third lens units move to be located closer to the object side at the telephoto end than the wide-angle end (Figure 1). The zoom lens system of embodiments 1-4 of Ozaki would inherently satisfy the two mathematical conditions of claim 1, this being reasonably based upon the similarity in zooming as shown in Figure 1 of Ozaki and that of the claimed invention and being based upon the very large ranges claimed (1.0 to 7.0 and 2.0 to 8.0).

Ozaki further discloses the second lens unit consisting of two negative lens elements and one positive lens element (Figures 1, 5, 9, and 13); the satisfaction of the condition of claim 3 (embodiments such as embodiment 2 with the condition equal to 0.86). It is believed that the zoom lens system of Ozaki will inherently satisfy the condition of claim 4 this being reasonably based upon the similarity in structure between the zoom lens system of Ozaki and that of the claimed invention. Ozaki further discloses the fourth lens unit moved to perform focusing (paragraph 0017); the third lens unit includes one or more aspherical surfaces (embodiments 1-4); the fourth lens unit includes one or more aspherical surfaces (embodiment 3); the satisfaction of the condition of claim 8 (embodiment 2 with the condition equal to 1.03); the satisfaction of the condition of claim 9 (embodiment 1 with the condition equal to 0.89); the zoom lens system in a camera that uses a solid-state image pickup element (paragraph 0002 and 0006 and a digital camera will inherently comprise a solid-state image pick-up element).

Art Unit: 2873

### **Examiner's Comments**

Eguchi publication number 2003/0197950 and Saruwatari publication number 2003/0063395 are being cited herein to show zoom lens systems that would have read on or made obvious a number of the above rejected claims, however, such rejections would have been repetitive.

#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jordan M. Schwartz whose telephone number is (571) 272-2337. The examiner can normally be reached on Monday to Friday (8:30 to 4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached at (571) 272-2333. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2873

Jordan M. Schwartz Primary Examiner

Art Unit 2873 July 31, 2007